


Roll No: -----

Name: Enrolment No:		 UPES UNIVERSITY WITH A PURPOSE	
UNIVERSITY OF PETROLEUM & ENERGY STUDIES <u>End Semester Examination – May, 2019</u>			
Program/course: MBA (Power Management)		Semester : 4th	
Subject: Integrated Power Resources Management and Power Sector Planning			
Max. Marks: 100		Duration : 3 Hrs	
Code: PIPM 8005		Duration : 3 Hrs	
No. of page/s: 2			
<i>All questions shall be strictly answered in chronological order.</i>			
<u>SECTION A</u>			[4*5 Marks = 20 Marks]
Ques 1	Briefly explain the following terminologies and their impact on the choice of power resources: a) Sustainable Development Goals b) Energy Security c) Zero Carbon Footprint d) Decentralized Energy	20	CO1, CO2
<u>SECTION B</u> <u>Answer all questions</u>			[5*10 Marks = 50 Marks]
Ques 2	Based on Draft National Electricity Plan, discuss the future electricity mix of India.	10	CO1, CO2, CO3
Ques 3	Electric Vehicles and Electricity Storage Options are expected to radically transform power sector in India. Discuss.	10	CO2, CO3, CO4
Ques 4	Integrated power resources management is essentially dependent on effective implementation of smart grid. Justify.	10	CO3, CO4
Ques 5	Based on Grameen Shakti experiment with solar home systems in Bangladesh, develop a plan for promoting solar home systems in Indian villages.	10	CO2, CO3, CO4

Ques 6	Briefly discuss two qualitative methods and two quantitative methods of forecasting.	10	CO1, CO2, CO3
<u>SECTION C</u>		[1*30 Marks = 30 Marks]	
Answer any one question from this section.			
Ques 7	Discuss the factors that are generally considered for estimating future electricity demand. Also, discuss the methodology adopted in Draft National Electricity Plan for estimation of future electricity demand.	30	CO2, CO3, CO4
Ques 8	Global trends indicate that renewable power has achieved grid parity with conventional power and it is expected that renewable power cost is going to get further down. Explain with appropriate justification.	30	CO2, CO3

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SECTION A

**[4*5 Marks =
20 Marks]**

Ques 1

Briefly explain the following terminologies and their impact on the choice of power resources:
a) Energy Security
b) Zero Carbon Footprint
c) Decentralized Energy
d) Sustainable Development Goals

20

**CO1,
CO2**

SECTION B

Answer all questions

**[5*10 Marks =
50 Marks]**

Ques 2

Discuss the salient features of Draft National Electricity Plan and its impact on Indian power sector.

10

**CO1,
CO2,
CO3**

Ques 3

Electric Vehicles and Electricity Storage Options are expected to radically transform power sector in India. Discuss.

10

**CO2,
CO3,
CO4**

Ques 4

Integrated power resources management is essentially dependent on effective implementation of smart grid. Justify.

10

**CO3,
CO4**

Ques 5

Based on Grameen Shakti experiment with solar home systems in Bangladesh, develop a plan for promoting solar home systems in Indian villages.

10

**CO2,
CO3,
CO4**

Ques 6

Briefly discuss two qualitative methods and two quantitative methods of forecasting.

10

**CO1,
CO2,
CO3**

<u>SECTION C</u>		[1*30 Marks = 30 Marks]	
Answer any one question from this section.			
Ques 7	Discuss the factors that are generally considered for estimating future electricity demand. Also, discuss the methodology adopted in Draft National Electricity Plan for estimation of future electricity demand.	30	CO2, CO3, CO4
Ques 8	Cities such as Dubai and Masdar are classic examples of integrated resource management. Discuss the lessons for India from such innovative practices in Dubai and Masdar.	30	CO2, CO3